Multiple Choice – Choose the best answer that completes the statement or question.

____ 1. The large gland located on either side of the larynx is the:
   A) parathyroid gland       C) thyroid gland
   B) pituitary gland        D) adrenal gland

____ 2. The islets of Langerhans are found in the:
   A) kidney     B) adrenal gland     C) pancreas     D) pituitary gland

____ 3. Which hormone opposes the effects of parathyroid hormone?
   A) calcitonin     B) glucagon     C) growth hormone     D) prolactin

____ 4. Cortisol is produced by the:
   A) adrenal cortex    B) adrenal medulla    C) pancreas    D) thyroid gland

____ 5. Which of the following hormones is synthesized in the posterior pituitary?
   A) antidiuretic hormone       C) melatonin
   B) growth hormone        D) none of the above

____ 6. Which of the following is NOT a product of the adrenal gland?
   A) cortisol     B) aldosterone     C) progesterone     D) epinephrine

____ 7. An example of a mineralocorticoid is:
   A) glucagon     B) cortisol     C) aldosterone     D) testosterone

____ 8. The stalk connecting the hypothalamus and the pituitary gland is called the:
   A) pituitary cortex     B) infundibulum     C) anterior lobe     D) hypophysis

____ 9. Diabetes insipidus results from a lack of:
   A) glucagon     B) aldosterone     C) calcitonin     D) antidiuretic hormone

____ 10. Mr. R is 54 years old. For the past two years, he has suffered from high blood sugar, frequent urination, and thirst. What is the most likely diagnosis?
   A) insulin-dependent diabetes mellitus
   B) non-insulin dependent diabetes mellitus
   C) diabetes insipidus
   D) hypoglycemia

____ 11. Deficiency of thyroxine in an adult can result in:
   A) cretinism     B) myxedema     C) acromegaly     D) tetany

____ 12. A hormone that increases sodium loss and lowers blood pressure is
   A) aldosterone     C) atrial natriuretic peptide
   B) antidiuretic hormone     D) calcitonin
13. The best treatment for anaphylaxis is
   A) epinephrine  B) cortisol  C) insulin  D) growth hormone

14. Oral contraceptives contain:
   A) estrogen and progesterone  C) testosterone and progesterone
   B) testosterone and estrogen  D) estrogen and aldosterone

Short Answer – Complete the sentence by filling in the correct word or phrase.

15. The building blocks of protein hormones are ________________________.

16. The hormone produced by the pineal gland is ________________________.

17. A hormone from the adrenal cortex that helps regulate sodium and potassium balance is ________________________.

18. Cretinism results from a lack of ___________________ in children.

19. The disease resulting from under-activity of the adrenal cortex is _______________.

20. Excess secretion of cortisol causes a disorder called ____________________.

Essay – Choose one of the following essays to complete.

21. Mr. J suffers from abnormally low blood sugar. His doctor suspects a pancreatic tumor that is only allowing secretion of a single pancreatic hormone.
   a. What is the name of this hormone?
   b. Explain why you chose this hormone versus other hormones secreted by the pancreas.

22. List the three hormones involved in calcium regulation and briefly describe the effect of each on blood calcium levels.

23. Using the example of thyroid hormones, explain how negative feedback is used to regulate hormone levels.